## Answer on Question\#37392-Chemistry - Inorganic Chemistry

$\mathrm{NaOH}+\mathrm{HCl} \rightarrow \mathrm{NaCl}+\mathrm{H}_{2} \mathrm{O}$

The amount of HCl is:
$\mathrm{n}=\mathrm{C} \cdot \mathrm{V}=0.5 \mathrm{M} \cdot 0.025 \mathrm{I}=0.0125 \mathrm{~mol}$
As we see from the reaction equation, the amount of substance of NaOH required to neutralize 0.0125 mol of HCl is the same.

So, mass of NaOH is
$\mathrm{m}=\mathrm{n} \cdot \mathrm{M}=0.0125 \mathrm{~mol} \cdot 40 \mathrm{~g} / \mathrm{mol}=0.5 \mathrm{~g}$

Answer: 0.5g

